Figure 1. Torque vs. Time Chart for Reactive Extrusion of PHBV with HEMA

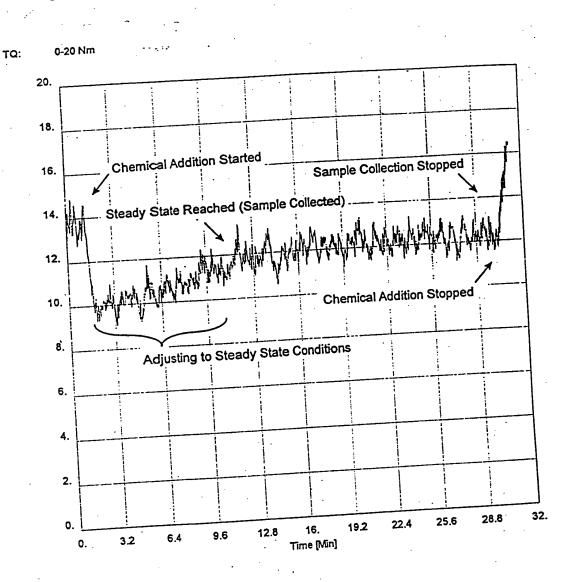
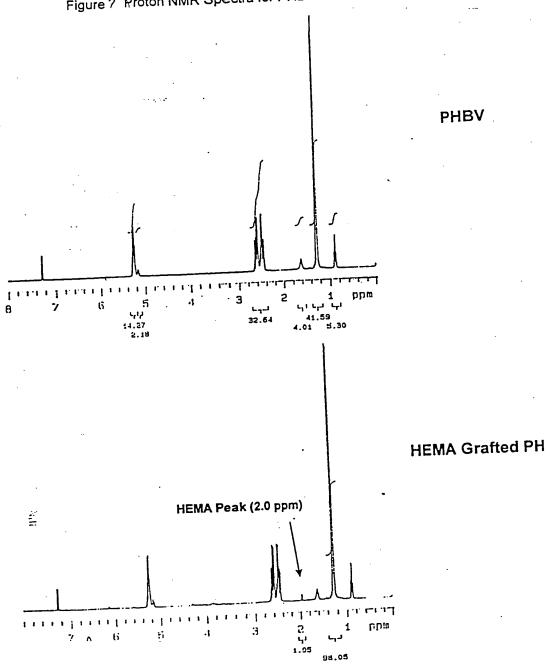


Figure 7 Proton NMR Spectra for PHBV and HEMA Grafted PHBV



Figure, 3 Melt Rheology at 180°C for PHBV and HEMA Grafted PHBV

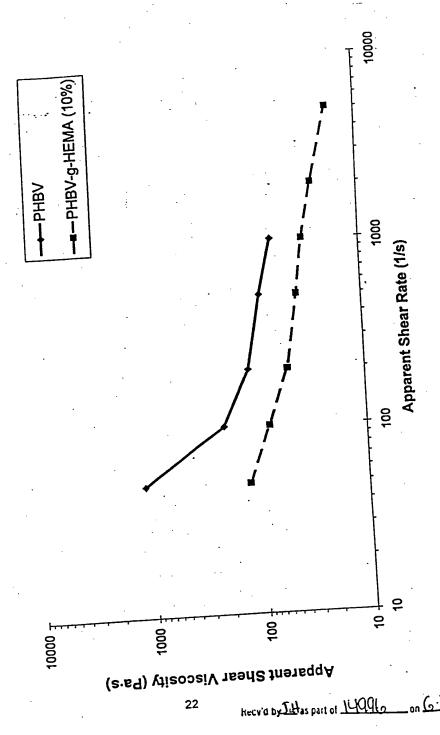
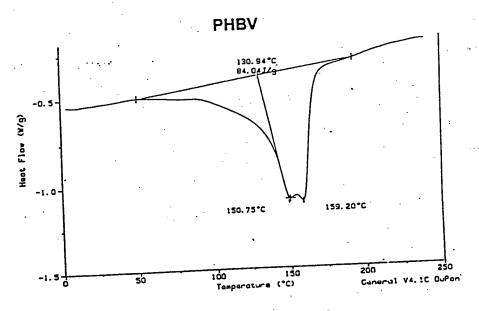
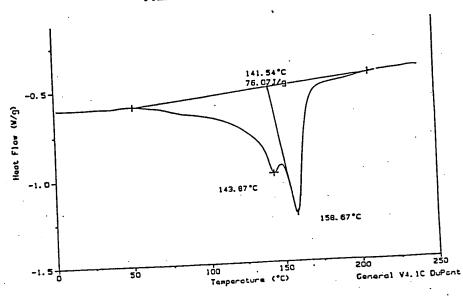


Figure 4 DSC Thermogram for PHBV and HEMA Grafted PHBV



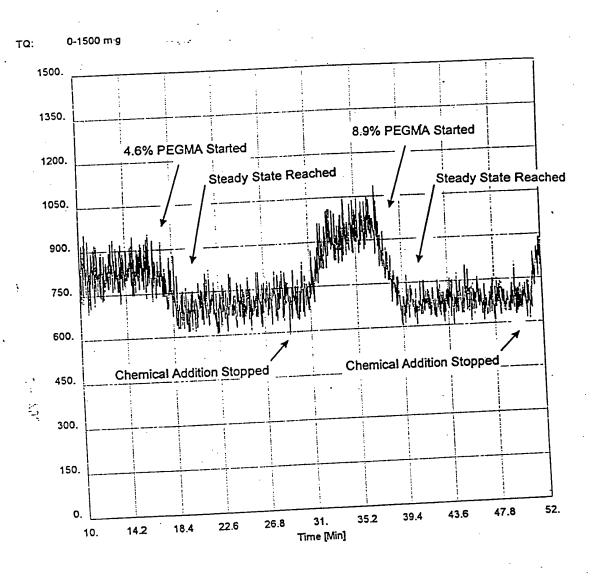
HEMA Grafted PHBV

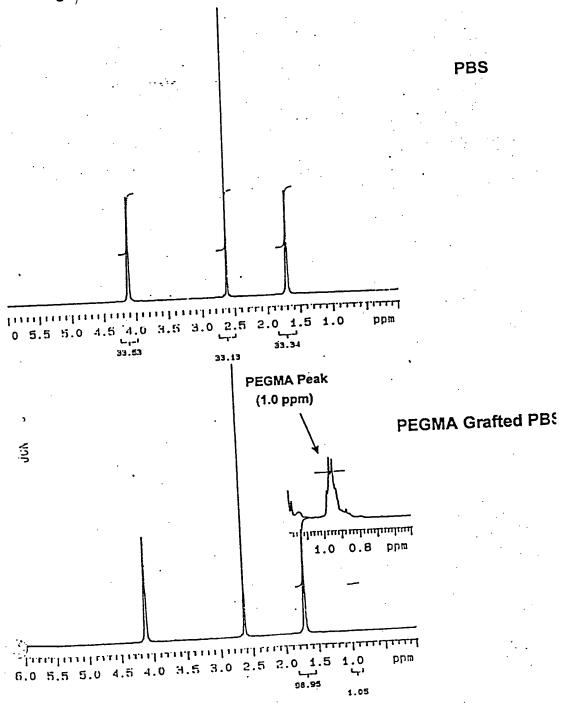


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Figure 7 Melt Rheology at 180°C for PBS and PEGMA Grafted PBS (Bionolle® 1040)

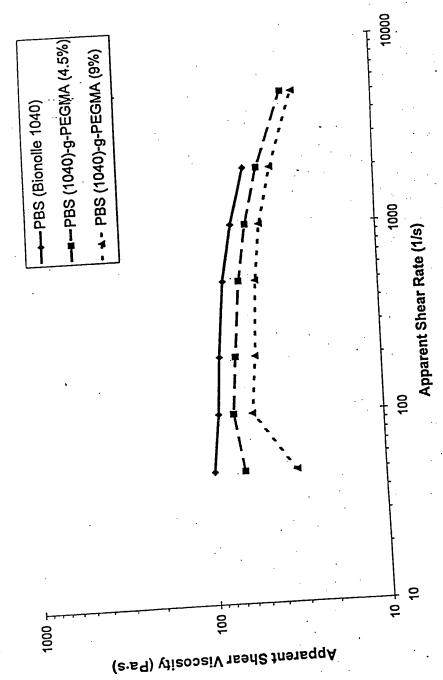
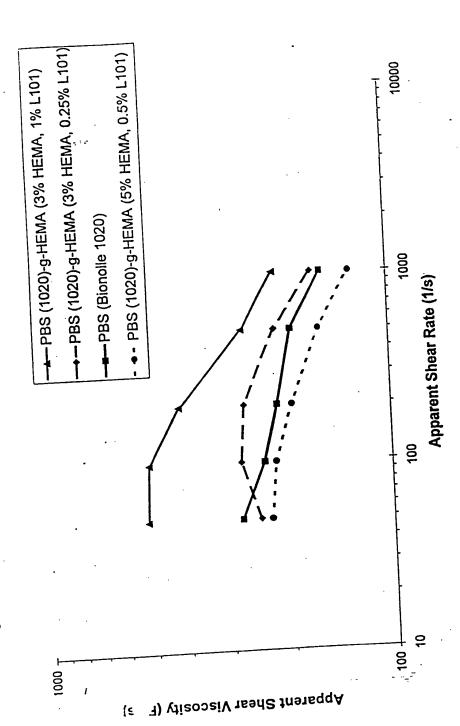
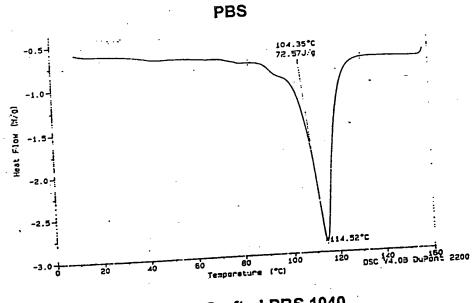


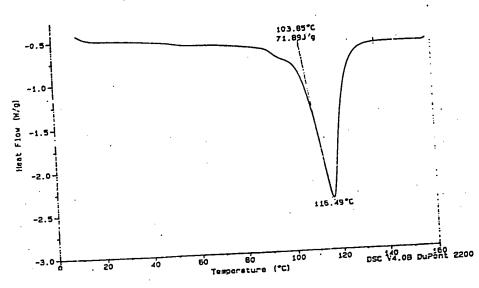
Figure 8 Melt Rheology at 180°C for PBS and HEMA Grafted PBS (Bionolle® 1020)

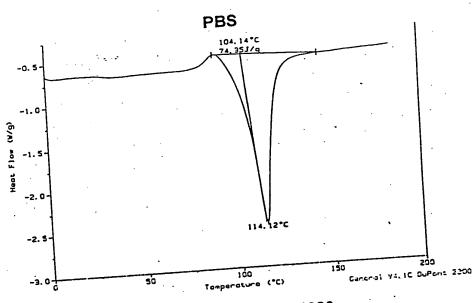




 $s \in \mathbb{F}$

PEGMA Grafted PBS 1040





HEMA Grafted PBS 1020

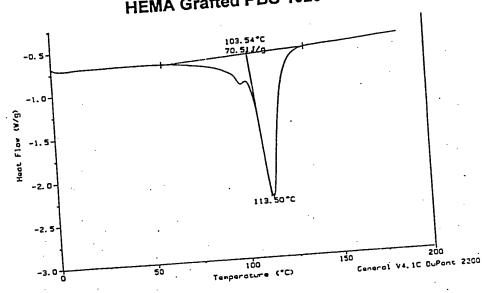
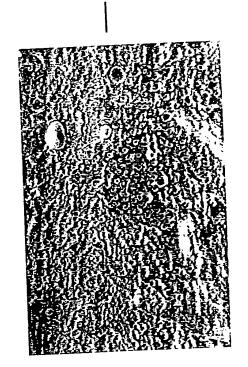


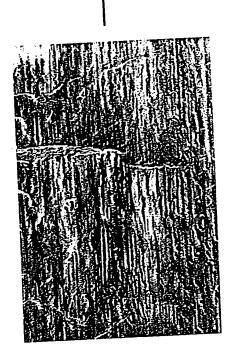
Figure 11



10 pr

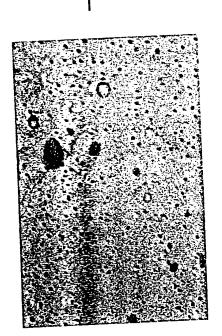
£.

Figure 12



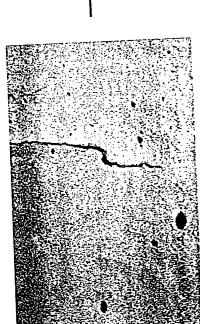
— 10 µm

Figure 13



10 µm

Figure 14



10 µm

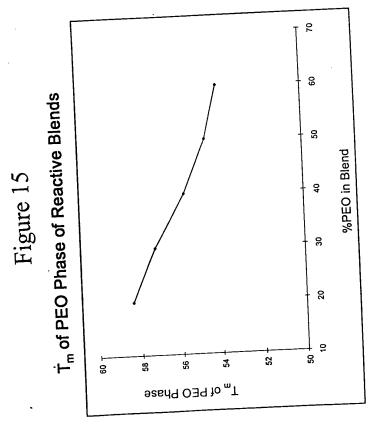


Figure 16

∆T_m= T_m (PEO Phase of Physical Blends) - T_m (Reactive Blends)

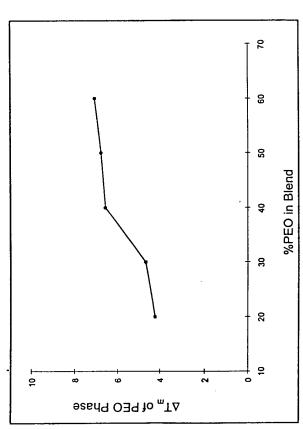
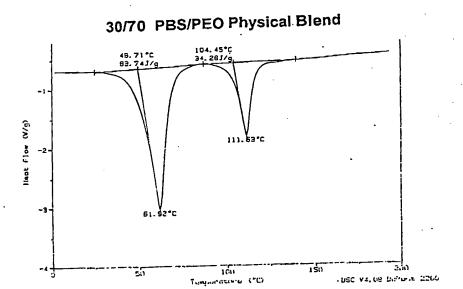


Figure 17 DSC Thermograms for PBS/PEO Physical and Reactive Blends



30/70 PBS/PEO Reactive Blend

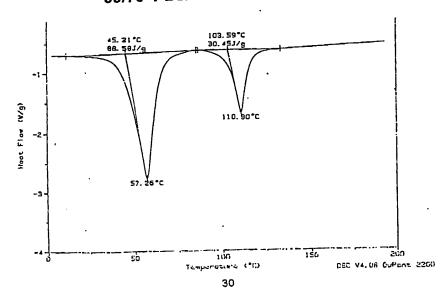


Figure 1.8 Melt Rheology at 195°C for PBS/PEO Physical and Reactive Blends

